

**GOVERNMENT OF INDIA  
SPACE  
LOK SABHA**

UNSTARRED QUESTION NO:3050  
ANSWERED ON:12.12.2012  
CHANDRAYAAN- II  
Rajesh Shri M. B.

**Will the Minister of SPACE be pleased to state:**

- (a) whether any delay is expected in Chandrayaan-II mission;
- (b) if so, the reasons therefore;
- (c) the status of indigenous Cryogenic Technology development efforts;
- (d) whether delay in developing indigenous Cryogenic Technology will have an impact on Chandrayaan-II Mission; and
- (e) if so, the details thereof?

**Answer**

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY):

- (a) Yes, Madam.
- (b) Pursuant to the inter agency agreement on cooperation in the field of Joint Moon Exploration signed on November 12, 2007, Indian Space Research Organisation (ISRO) and Federal Space Agency of Russia (ROSCOSMOS) have jointly undertaken the Chandrayaan-II mission. In February 2010, an amendment to the earlier agreement was signed, wherein
  - (i) ISRO is responsible for Lunar orbiter, Lunar rover and the launch by GSLV, and
  - (ii) ROSCOSMOS is responsible for a Lunar lander module. In May 2012, ROSCOSMOS has indicated a major programmatic change in Joint Moon Exploration. Currently the discussions are underway between ISRO and ROSCOSMOS on the way forward.
- (c) The indigenous Cryogenic Engine has been realized for the forthcoming GSLV-D5 flight.
- (d) No, Madam. As per the present status of indigenous Cryogenic stage, no impact on Chandrayaan-II mission is envisaged.
- (e) Does not arise.